

Title (en)
Gearbox for wind turbines

Title (de)
Getriebe für Windgeneratoren

Title (fr)
Boîte d'engrenage pour éoliennes

Publication
EP 1184567 A3 20100519 (DE)

Application
EP 01119082 A 20010808

Priority
DE 10043593 A 20000901

Abstract (en)
[origin: EP1184567A2] A rotor (10) is connected to a generator via a planetary transmission (6,5,2,16) and a spur gear stage (17,19). The rotor is located in the transmission housing (3,8,8'), and is connected to a ring gear carrier (7,7') with ring gear (6). The rotor is born in slide bearings (9,15), one of which is able to absorb axial forces. Rotor and carrier are an integral component. The teeth of the ring gear are surface-hardened.

IPC 8 full level
F03D 3/06 (2006.01); **F03D 15/00** (2016.01); **F16H 1/22** (2006.01); **F16H 37/04** (2006.01)

CPC (source: EP US)
F03D 15/00 (2016.05 - EP US); **F03D 15/10** (2016.05 - EP US); **F03D 80/70** (2016.05 - EP US); **F16H 1/227** (2013.01 - EP US); **F16H 37/041** (2013.01 - EP); **F05B 2260/40311** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

Citation (search report)

- [XDPLA] EP 1046838 A2 20001025 - RENK AG [DE]
- [X] WO 9119916 A1 19911226 - HICKS TRANSMISSIONS LTD R J [GB]
- [X] DE 19857914 A1 20000706 - JAHNEL KESTERMANN GETRIEBEWERK [DE]
- [A] EP 0093461 A1 19831109 - FDO TECHN ADVISEURS [NL]
- [A] FR 1601670 A 19700907
- [A] THORNBLAD P: "GEARS FOR WIND POWER PLANTS", INTERNATIONAL SYMPOSIUM ON WIND ENERGY SYSTEMS, XX, XX, 1 January 1978 (1978-01-01), pages C6.89 - C6.106, XP002133564

Cited by
DE10318945B3; EP2199607A3; EP3434917A1; DE102013211710C5; US10927941B2; DE102008024049A1; DE102008024049B4; DE102008024049C5; EP2006538A3; CN106894951A; EP2397691A3; EP3483432A1; CN110030163A; US9797378B2; US8393993B2; US8313298B2; WO2013072004A1; WO2017092748A1; WO2007085259A1; WO2007085644A1; US8568099B2; US8696314B2; DE102022133619A1; WO2024125707A1; US8128525B2; DE102009008340A1; WO2010078886A2; US9447777B2; US9316290B2; US10495210B2; DE102022129717B3; WO2024099499A1; WO2011127510A1; US9458880B2; EP3124811A1; US11174895B2; EP2694810B1; EP1977108B1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)
AL LT LV MK RO SI

DOCDB simple family (publication)
EP 1184567 A2 20020306; EP 1184567 A3 20100519; EP 1184567 B1 20170517; CA 2356726 A1 20020301; CA 2356726 C 20051206; DE 10043593 A1 20020328; DE 10043593 B4 20140109; DK 1184567 T3 20170911; ES 2636934 T3 20171010; NO 20014207 D0 20010830; NO 20014207 L 20020304; NO 324995 B1 20080114; US 2002049108 A1 20020425; US 6790156 B2 20040914

DOCDB simple family (application)
EP 01119082 A 20010808; CA 2356726 A 20010830; DE 10043593 A 20000901; DK 01119082 T 20010808; ES 01119082 T 20010808; NO 20014207 A 20010830; US 94433701 A 20010831